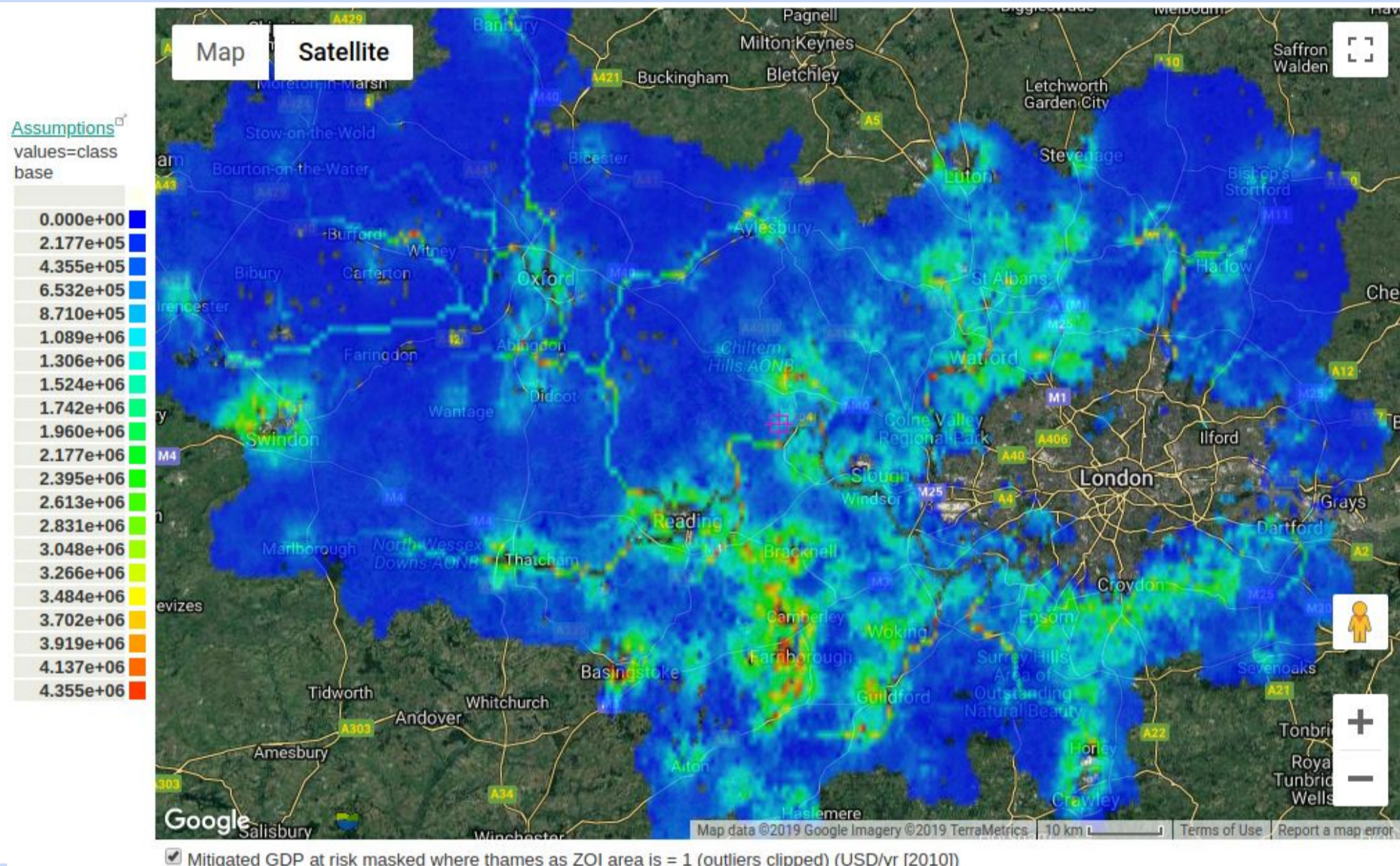


# //SmartRiver: Leveraging the Internet of Things to assess the effectiveness of Natural Flood Management and its co-benefits.

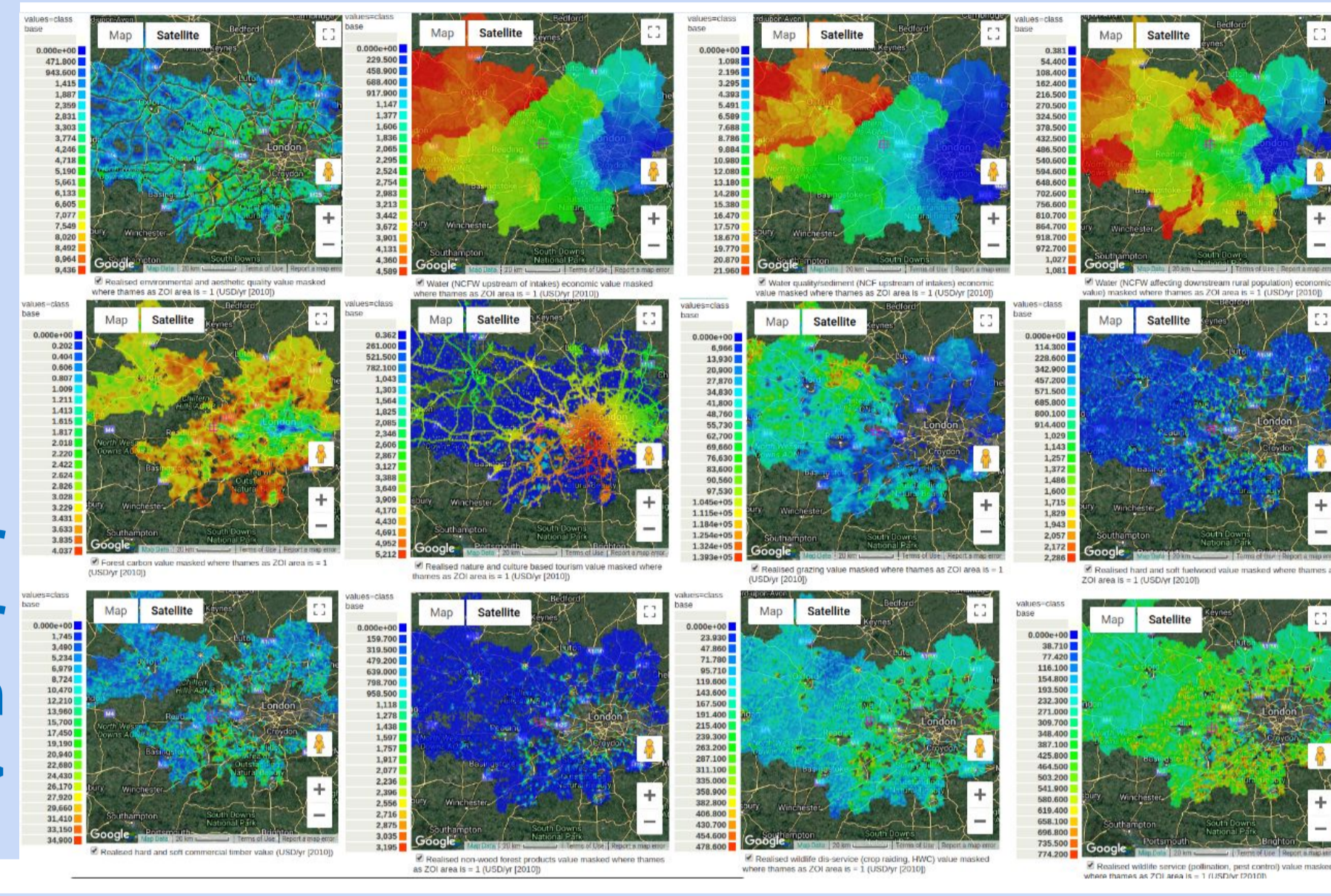
Here we use a series of tools to operationalise strategic planning and investment for Natural Flood Management

Flood mitigation is an important ecosystem service provided by natural capital. The same natural capital has a variety of co-benefits. Both can be mapped using **Co\$tingNature**

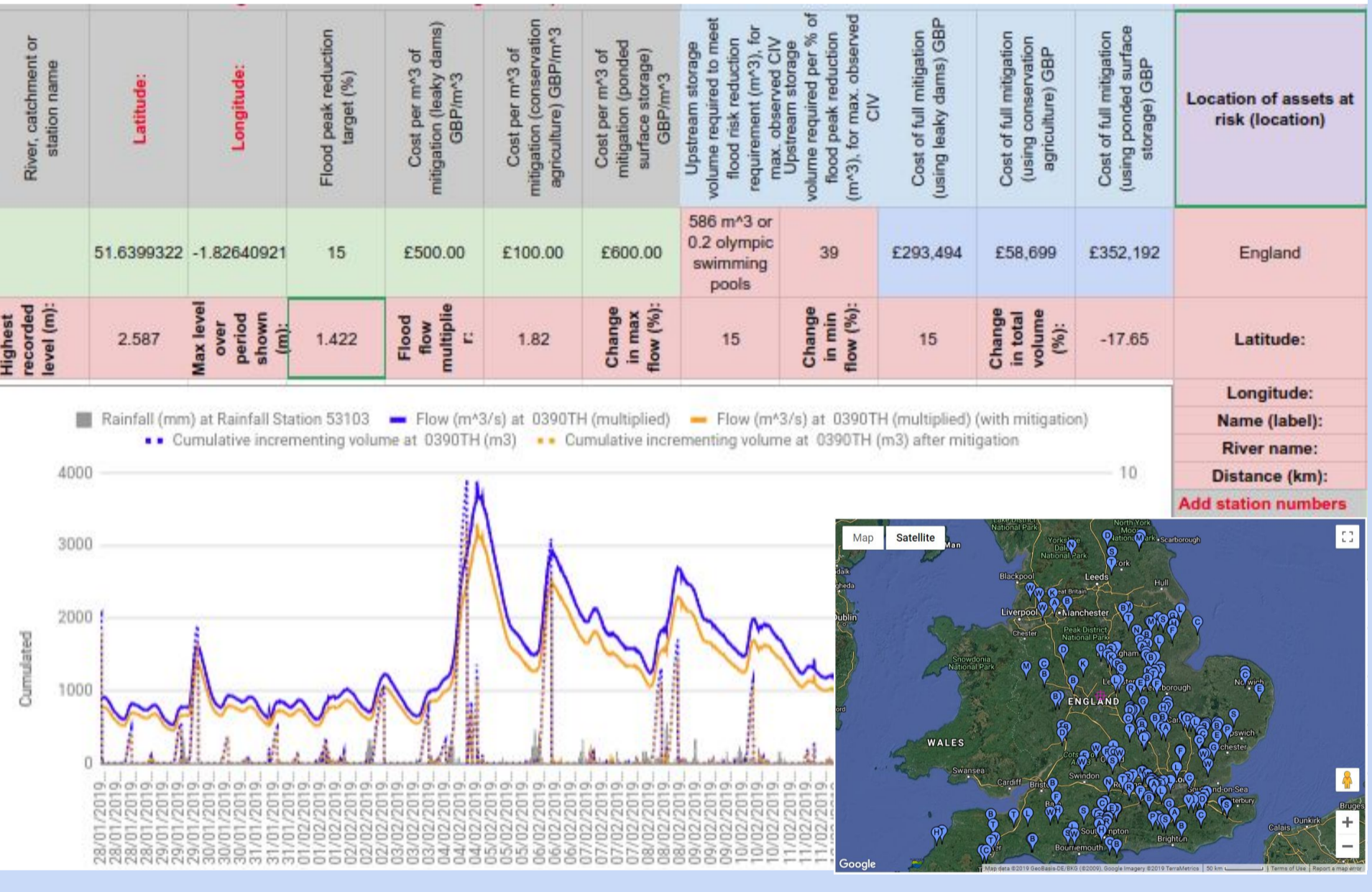


<GDP at risk mitigated by natural capital in the Thames

Co-benefits for 12 other ecosystem services

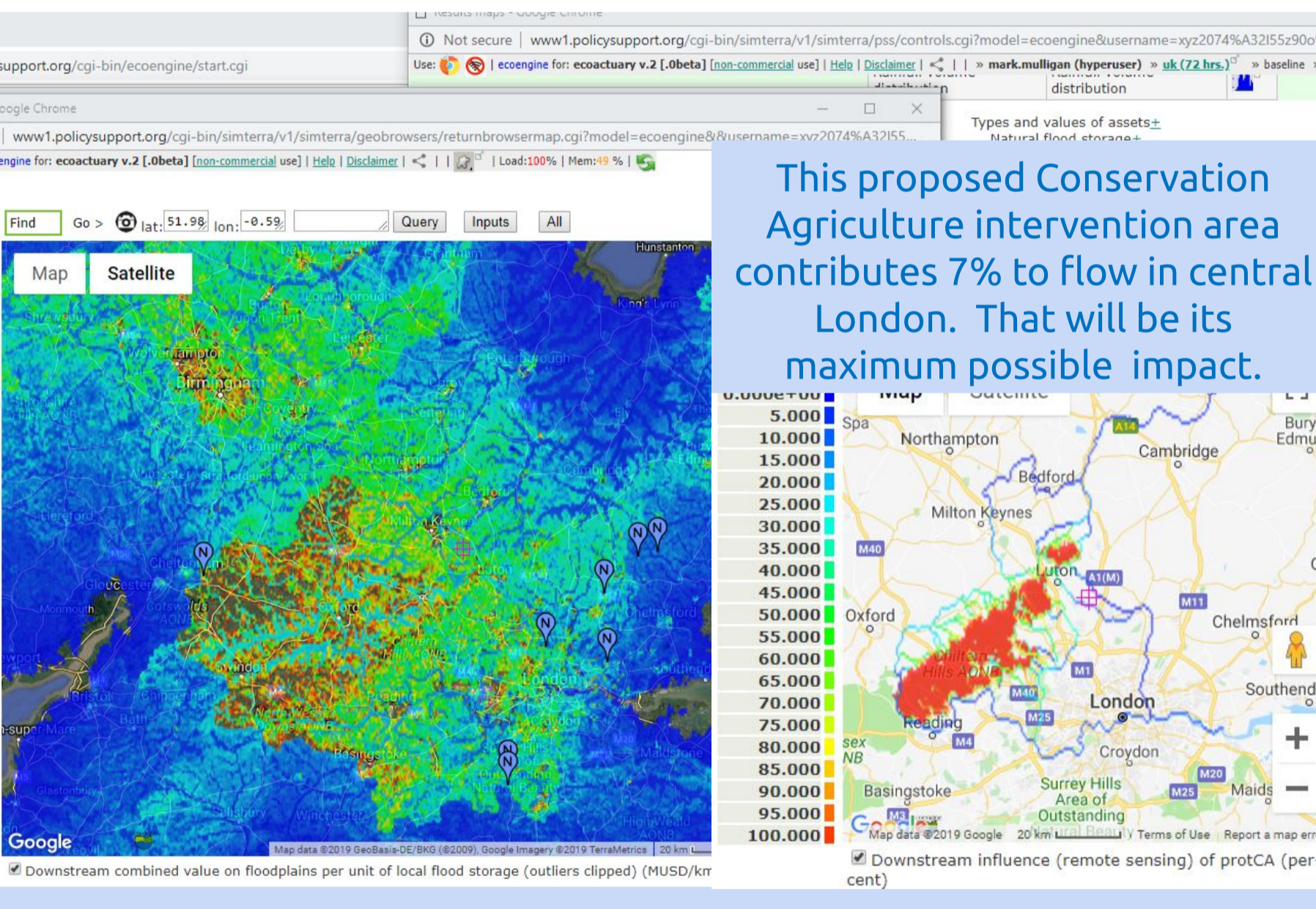


Managing these benefits involves protection of existing natural capital but also development of new, through investments in Natural Flood Management. These investments must be strategically placed to make a difference: **Eco:Actuary** help **plan** and **locate** the best sites for investment



<Eco:Actuary investment planner to examine scale of intervention needed

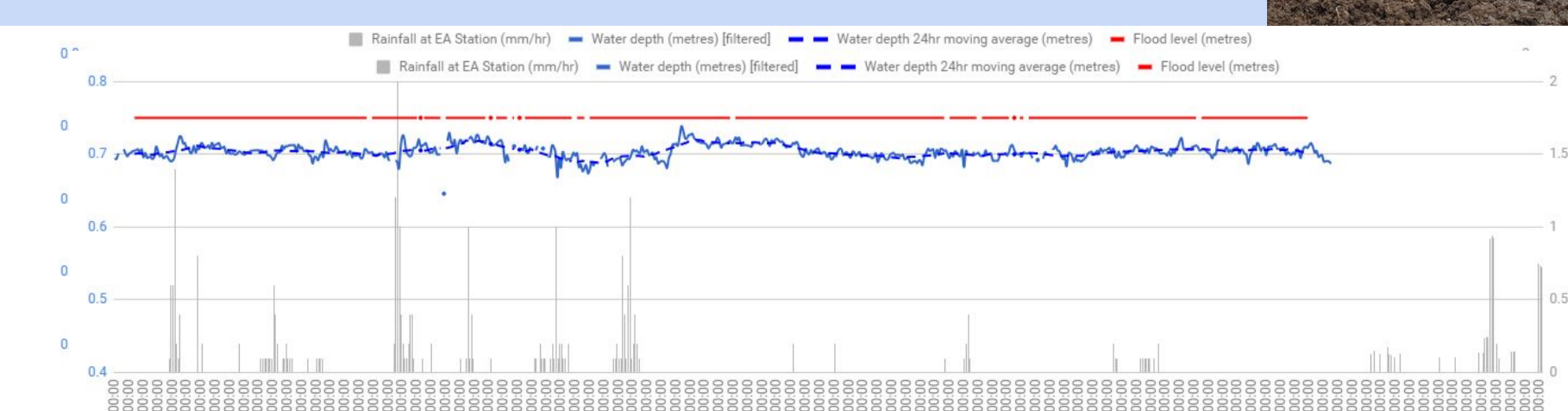
Eco:Actuary spatial model to understand where to invest for maximum return



They must also be monitored for their effectiveness: //Smart:River measures the impact of interventions on flood peak reduction downstream directly and in real time, connecting through the **Internet of Things**



Our //Smart:River web connected, low cost, DIY sensors are monitoring the contribution of **leaky dams, retention ponds and conservation agriculture** to flood mitigation at sites throughout England



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 730497

More information at  
[www.policysupport.org/smart](http://www.policysupport.org/smart)  
[www.policysupport.org/costingnature](http://www.policysupport.org/costingnature)  
[sophia.burke@ambiotek.com](mailto:sophia.burke@ambiotek.com)